

REMARKS

This Amendment is responsive to the Office Action identified above, and is further responsive in any other manner indicated below.

REQUEST FOR EXAMINER INTERVIEW BEFORE FURTHER ACTION

In the interest of expediting prosecution of the present application, Applicant respectfully requests that an Examiner Interview be scheduled and conducted before a further Action is issued with respect to the present application. The Examiner is respectfully requested to telephone the undersigned at the local D.C. area number of 703-312-6600 for the purpose of scheduling an Examiner Interview. The Examiner is thanked in advance for such consideration. Contact also will be attempted by the undersigned to schedule an Examiner Interview. In the event that the present papers, in and of themselves, are sufficient to place the application in condition for allowance, no Examiner Interview would be necessary.

DISCLOSURE OBJECTION

The disclosure has been objected to because of the Office Action concerns listed within the section on page 2 of the Office Action. The related application information has been reviewed and no updating is needed at this time. Upon allowance of the application, the related application information will receive a finalizing update at that time. As the foregoing is believed to have address this minor objection, reconsideration and withdrawal of the objection to the disclosure are respectfully requested.

PENDING CLAIMS

Claims 1-90 were pending, under consideration and subjected to examination in the Office Action. Appropriate claims have been amended, canceled and/or added (without prejudice or disclaimer) in order to adjust a clarity and/or focus of Applicant's claimed invention. That is, such changes are unrelated to any prior art or scope adjustment and are simply refocused claims in which Applicant is present interested. Canceled ones of Applicants claims may be pursued within a continuing application. At entry of this paper, Claims 1-6, 8-30, 32-38 and 91-101 will be pending for further consideration and examination in the application.

§112, 2ND PAR. REJ. OBIATED VIA CLAIM AMENDMENT/CANCELLATION

Claims 26-90 have been rejected under 35 USC §112, second paragraph, as being indefinite for the concerns listed within the section on page 2 of the Office Action. Unrelated to any prior art rejection, Claims 31 and 39-90 have now been canceled without prejudice or disclaimer, thus rendering the rejection thereof obsolete at this time. The remaining ones of Claims 29-90 have been carefully reviewed and carefully amended where appropriate in order to address the Office Action listed concerns. As the foregoing is believed to have addressed all §112 second paragraph concerns, reconsideration and withdrawal of the §112 second paragraph rejection are respectfully requested.

§§102 AND 103 REFERENCES - ANTEDATED

Any §§102 and 103 rejections based upon Akram *et al.* (US 5,674,785 A) and/or Masukawa (US 5,753,974 A) are respectfully traversed. More particularly, Applicant respectfully notes that an effective filing date (27 November 1995) of the Akram *et al.* reference falls between the present application's US filing date (07 July 2000) and the present application's foreign priority dates (20 December 1994; 25 May 1995). Likewise, Applicant respectfully notes that an effective filing date (31 August 1995) of the Masukawa reference falls between the present application's US filing date (07 July 2000) and the present application's foreign priority dates (20 December 1994; 25 May 1995). Accordingly, both such reference can be removed as valid prior art by the filing of an English language translation of Applicant's foreign priority documents together with a statement that the translation of the certified copy is accurate. Attached herewith are English language translations of Applicant's foreign priority documents, together with Applicant's representative's statement that the translation of the certified copy is accurate. Based upon the foregoing, reconsideration and withdrawal of such rejections are respectfully requested. The above statements, or the filing of any English translations, should not be taken as an indication or admission that the art is substantively relevant, but is merely use of a procedural approach to preclude art.

SUPPORT FOR ADDED CLAIMS 91-95

It is respectfully noted that added Claims 91-95 are supported based on independent Claim 91 substantially paralleling independent claim 26, with the

exception that “epoxy resin” was simplified to just “resin”. More particularly, the combination of glass fiber and resin may be more substantial to Applicant’s invention, while epoxy is not essential. Applicant’s disclosure has numerous occurrences of “resin” for a rigid substrate together with glass fiber (see, for example, Column 6, lines 60-62 of ancestor patent US 5,777,191 A).

Added Claims 96-101 are supported based on independent Claim 96 substantially paralleling independent Claim 26.

REWRITTEN ALLOWABLE CLAIMS

It is respectfully noted that Claims 7, 10, 30 and 31-32 should now be allowable, given the fact that Masukawa has been removed as prior art and Hinrichsmeyer *et al.* thus taken alone does not support a rejection of such claims. The limitations of Claim 7, for example, has now been incorporated into each of the independent Claims 1, 10, 11, 14, 22, 26, 91 and 96, and accordingly, at least such independent claims and any claims dependent therefrom should now be allowable. More particularly, at least claims 1-6, 10-30, 32-38 and 91-101 should be allowable. Reconsideration and allowance of such claims are respectfully requested.

REMAINING HINRICHSMEYER *et al.* §102/§103 REJECTIONS - TRAVERSED

All 35 USC rejections based upon the Hinrichsmeyer *et al.* reference (alone, or with any other reference) are respectfully traversed. Such rejections have been rendered obsolete by the present clarifying amendments to Applicant’s claims, and accordingly, traversal arguments are not appropriate at this time. However,

Applicant respectfully submits the following to preclude renewal of any such rejections against Applicant's clarified claims.

All descriptions of Applicant's disclosed and claimed invention, and all descriptions and rebuttal arguments regarding the applied prior art, as previously submitted by Applicant in any form, are repeated and incorporated herein by reference. Further, all Office Action statements regarding the prior art rejections are respectfully traversed. As additional arguments, Applicant respectfully submits the following additional remarks from Applicant's foreign representative in support of patentability of Applicant's claims.

Hinrichmeyer *et al.* (US 4,996,587 A) does not show the subject matter of the present Claims 7, 10, 30, 31, and 32, and this appears recognized in the prior rejections, so claims at least including subject matter of Claims 7, 10, 30, 31, and 32 should be allowable.

Further, Hinrichsmeyer *et al.* does not show the electrodes as claimed in each of the independent Claims 1, 11, 14, 22 and 26. Still further, there is no specific explanation of the material (25) of Hinrichsmeyer *et al.*, and the material (25) is included in the S shaped clip while the chip carrier (10) does not include the material (25).

Furthermore, regarding present Claim 26, Hinrichsmeyer *et al.* does not show the specific arrangement of bump electrodes that overlap the semiconductor chip. That is because the encapsulation (28) of Hinrichsmeyer *et al.* is needed to cover wires (22) and all conductors (18) formed on the top side (12) of the substrate (10), so that the encapsulation (28) is extended to overlap with the front surface of the

chip (19). Accordingly, the material (25) being regarded as bump electrodes by the Examiner cannot be provided on the substrate (10) to overlap with the front surface of the chip (19).

As a result of all of the foregoing, it is respectfully submitted that the applied art would not support a §102 anticipatory-type rejection or §103 obviousness-type rejection of Applicant's claims. Accordingly, reconsideration and withdrawal of such §§102 and 103 rejections, and express written allowance of all of the rejected claims, are respectfully requested.

EXAMINER INVITED TO TELEPHONE

The Examiner is invited to telephone the undersigned at the local D.C. area number of 703-312-6600, to discuss an Examiner's Amendment or other suggested action for accelerating prosecution and moving the present application to allowance.

RESERVATION OF RIGHTS

It is respectfully submitted that any and all claim amendments and/or cancellations submitted within this paper and throughout prosecution of the present application are without prejudice or disclaimer. That is, any above statements, or any present amendment or cancellation of claims should not be taken as an indication or admission that any objection/rejection was valid, or as a disclaimer of any scope or subject matter. Applicant respectfully reserves all rights to file subsequent related applications (including reissue applications) directed to any/all previously claimed limitations/features which have been subsequently amended or

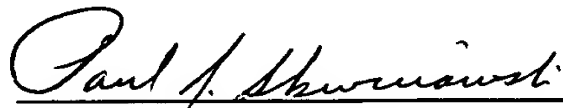
cancelled, or to any/all limitations/features not yet claimed, *i.e.*, Applicant continues (indefinitely) to maintain no intention or desire to dedicate or surrender any limitations/features of subject matter of the present application to the public.

CONCLUSION

In view of the foregoing amendments and remarks, Applicant respectfully submits that the claims pending in this case upon entry of this paper are in condition for allowance. Accordingly, early allowance of such claims is respectfully requested.

This Amendment is being submitted within the shortened statutory period for response set by the Office Action mailed 27 January 2005, and accordingly, no Petition is required for entry of this paper. To whatever other extent is actually necessary, Applicant respectfully petitions for an extension of time under 37 CFR §1.136. Further, no additional claim fees are necessary for entry of this paper. Please charge any actual fee deficiency for entry of this paper to ATSK Deposit Account No. 01-2135 (as Docket No. 501.34189R00).

Respectfully submitted,



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Attachments:

- English Language Translations of JP 06-316444 and JP 07-126405
- Statements of Accuracy